



## Claims

What is claimed is:

1. A machine for air filtration that is self cleaning comprising:

a filter comprising a motor driven belt or disk or counter rotating disks that are perforated;

a spray bar;

a recirculation pump and supply line;

a wet tank;

a ultrasonic transducer ;

ultraviolet submersible bulbs ;

a water fill port;

a liquid level sensor;

a liquid and sediment drain port; and

a power source.

2. A machine for air filtration that is self cleaning as claimed in claim 1 further comprising a subsonic transducer on said wet tank

3. A machine for air filtration that is self cleaning as claimed in claim 1 further comprising a treated surface of said belt disk or disks

**4. A machine for air filtration that is self cleaning as claimed in claim 1 further comprising a chemical injection port on said wet tank**

**5. A process for air filtration that is self cleaning comprising the steps of:**

**a filter comprising a motor driven belt or disk or counter rotating disks that are perforated;**

**a spray bar;**

**a recirculation pump and supply line;**

**a wet tank;**

**a ultrasonic transducer ;**

**ultraviolet submersible bulbs ;**

**a water fill port;**

**a liquid level sensor;**

**a liquid and sediment drain port; and**

**a power source.**

**6. A process for air filtration that is self cleaning as claimed in claim 5 further comprising the step(s) of a air diffuser, a toxic and noxious gas detection and**

recognition and radiation detection with automatic safety shut down and audible and visual alarm, a ultraviolet saturation chamber

7. A process for air filtration that is self cleaning as claimed in claim 6 further comprising a secondary wet filter, a secondary air diffuser, a secondary ultraviolet saturation chamber

8. A process for air filtration that is self cleaning multiple step with a variety of feasible options as claimed in claim 6 further comprising a inline dryer assembly